

RAW SEQUENCE LISTING

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Application Serial Number: 10/582,301
Source: JFWP
Date Processed by STIC: 06/21/2006

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IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/582,301

DATE: 06/21/2006
TIME: 11:04:46

Input Set : A:\PTO.KD.txt
Output Set: N:\CRF4\06212006\J582301.raw

3 <110> APPLICANT: AGENCY FOR SCIENCE TECHNOLOGY AND RESEARCH
5 <120> TITLE OF INVENTION: SARS CORONAVIRUS S PROTEINS AND USES THEREOF
7 <130> FILE REFERENCE: 5463-2PCT
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/582,301
C--> 10 <141> CURRENT FILING DATE: 2006-06-09
12 <150> PRIOR APPLICATION NUMBER: 60/528,596
13 <151> PRIOR FILING DATE: 2003-12-10
15 <160> NUMBER OF SEQ ID NOS: 25
17 <170> SOFTWARE: PatentIn Ver. 3.3
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 3765
21 <212> TYPE: DNA
22 <213> ORGANISM: SARS Coronavirus
24 <400> SEQUENCE: 1
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27 tactatcctg atgaaatttt tagatcagac actctttttt taactcagga tttatctttt 180
28 ccattttattt ctaatgttac agggtttcat actattaaatc atacgtttgg caaccctgtc 240
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39 aatccacttg ctgaactcaa atgctctgtt aagagctttg agattgacaa aggaattttac 900
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43 tttcaacccctt ttaagtgcata tggcggttttgc gccaactaagt tgaatgtatct ttgcttctcc 1140
44 aatgtctatg cagattctt tggatgtcaag ggagatgttgc taagacaaat agcgcacgg 1200
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 55 gttaactgca ctgatgttac tacagcaatt catgcagatc aactcacacc agcttggcgc 1860
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 82 catacatcac cagatgttgc tcttggcgac atttcaggca ttaacgcttc tgctcaac 3480
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 91 <211> LENGTH: 1255
 92 <212> TYPE: PRT
 93 <213> ORGANISM: SARS Coronavirus
 95 <400> SEQUENCE: 2
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 99 Asp Arg Cys Thr Thr Phe Asp Asp Val Gln Ala Pro Asn Tyr Thr Gln
 100 20 25 30
 102 His Thr Ser Ser Met Arg Gly Val Tyr Tyr Pro Asp Glu Ile Phe Arg
 103 35 40 45
 105 Ser Asp Thr Leu Tyr Leu Thr Gln Asp Leu Ser Leu Pro Phe Tyr Ser
 106 50 55 60
 108 Asn Val Thr Gly Phe His Thr Ile Asn His Thr Phe Gly Asn Pro Val
 109 65 70 75 80

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112 85 90 95
114 Val Val Arg Gly Trp Val Phe Gly Ser Thr Met Asn Asn Lys Ser Gln
115 100 105 110
117 Ser Val Ile Ile Asn Asn Ser Thr Asn Val Val Ile Arg Ala Cys
118 115 120 125
120 Asn Phe Glu Leu Cys Asp Asn Pro Phe Phe Ala Val Ser Lys Pro Met
121 130 135 140
123 Gly Thr Gln Thr His Thr Met Ile Phe Asp Asn Ala Phe Asn Cys Thr
124 145 150 155 160
126 Phe Glu Tyr Ile Ser Asp Ala Phe Ser Leu Asp Val Ser Glu Lys Ser
127 165 170 175
129 Gly Asn Phe Lys His Leu Arg Glu Phe Val Phe Lys Asn Lys Asp Gly
130 180 185 190
132 Phe Leu Tyr Val Tyr Lys Gly Tyr Gln Pro Ile Asp Val Val Arg Asp
133 195 200 205
135 Leu Pro Ser Gly Phe Asn Thr Leu Lys Pro Ile Phe Lys Leu Pro Leu
136 210 215 220
138 Gly Ile Asn Ile Thr Asn Phe Arg Ala Ile Leu Thr Ala Phe Ser Pro
139 225 230 235 240
141 Ala Gln Asp Ile Trp Gly Thr Ser Ala Ala Ala Tyr Phe Val Gly Asp
142 245 250 255
144 Leu Lys Pro Thr Thr Phe Met Leu Lys Tyr Asp Glu Asn Gly Thr Ile
145 260 265 270
147 Thr Asp Ala Val Asp Cys Ser Gln Asn Pro Leu Ala Glu Leu Lys Cys
148 275 280 285
150 Ser Val Lys Ser Phe Glu Ile Asp Lys Gly Ile Tyr Gln Thr Ser Asn
151 290 295 300
153 Phe Arg Val Val Pro Ser Gly Asp Val Val Arg Phe Pro Asn Ile Thr
154 305 310 315 320
156 Asn Leu Cys Pro Phe Gly Glu Val Phe Asn Ala Thr Lys Phe Pro Ser
157 325 330 335
159 Val Tyr Ala Trp Glu Arg Lys Lys Ile Ser Asn Cys Val Ala Asp Tyr
160 340 345 350
162 Ser Val Leu Tyr Asn Ser Thr Val Phe Ser Thr Phe Lys Cys Tyr Gly
163 355 360 365
165 Val Ser Ala Thr Lys Leu Asn Asp Leu Cys Phe Ser Asn Val Tyr Ala
166 370 375 380
168 Asp Ser Phe Val Val Lys Gly Asp Asp Val Arg Gln Ile Ala Pro Gly
169 385 390 395 400
171 Gln Thr Gly Val Ile Ala Asp Tyr Asn Tyr Lys Leu Pro Asp Asp Phe
172 405 410 415
174 Met Gly Cys Val Leu Ala Trp Asn Thr Arg Asn Ile Asp Ala Thr Ser
175 420 425 430
177 Thr Gly Asn Tyr Asn Tyr Lys Tyr Arg Tyr Leu Arg His Gly Lys Leu
178 435 440 445
180 Arg Pro Phe Glu Arg Asp Ile Ser Asn Val Pro Phe Ser Pro Asp Gly
181 450 455 460
183 Lys Pro Cys Thr Pro Pro Ala Leu Asn Cys Tyr Trp Pro Leu Asn Asp

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189	Val	Val	Leu	Ser	Phe	Glu	Leu	Leu	Asn	Ala	Pro	Ala	Thr	Val	Cys	Gly
190						500			505							510
192	Pro	Lys	Leu	Ser	Thr	Asp	Leu	Ile	Lys	Asn	Gln	Cys	Val	Asn	Phe	Asn
193						515			520							525
195	Phe	Asn	Gly	Leu	Thr	Gly	Thr	Gly	Val	Leu	Thr	Pro	Ser	Ser	Lys	Arg
196						530			535							540
198	Phe	Gln	Pro	Phe	Gln	Gln	Phe	Gly	Arg	Asp	Val	Ser	Asp	Phe	Thr	Asp
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201	Ser	Val	Arg	Asp	Pro	Lys	Thr	Ser	Glu	Ile	Leu	Asp	Ile	Ser	Pro	Cys
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204	Ser	Phe	Gly	Gly	Val	Ser	Val	Ile	Thr	Pro	Gly	Thr	Asn	Ala	Ser	Ser
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207	Glu	Val	Ala	Val	Leu	Tyr	Gln	Asp	Val	Asn	Cys	Thr	Asp	Val	Ser	Thr
208							595			600						605
210	Ala	Ile	His	Ala	Asp	Gln	Leu	Thr	Pro	Ala	Trp	Arg	Ile	Tyr	Ser	Thr
211							610			615						620
213	Gly	Asn	Asn	Val	Phe	Gln	Thr	Gln	Ala	Gly	Cys	Leu	Ile	Gly	Ala	Glu
214	625						630			635						640
216	His	Val	Asp	Thr	Ser	Tyr	Glu	Cys	Asp	Ile	Pro	Ile	Gly	Ala	Gly	Ile
217							645			650						655
219	Cys	Ala	Ser	Tyr	His	Thr	Val	Ser	Leu	Leu	Arg	Ser	Thr	Ser	Gln	Lys
220							660			665						670
222	Ser	Ile	Val	Ala	Tyr	Thr	Met	Ser	Leu	Gly	Ala	Asp	Ser	Ser	Ile	Ala
223							675			680						685
225	Tyr	Ser	Asn	Asn	Thr	Ile	Ala	Ile	Pro	Thr	Asn	Phe	Ser	Ile	Ser	Ile
226							690			695						700
228	Thr	Thr	Glu	Val	Met	Pro	Val	Ser	Met	Ala	Lys	Thr	Ser	Val	Asp	Cys
229	705						710			715						720
231	Asn	Met	Tyr	Ile	Cys	Gly	Asp	Ser	Thr	Glu	Cys	Ala	Asn	Leu	Leu	Leu
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234	Gln	Tyr	Gly	Ser	Phe	Cys	Thr	Gln	Leu	Asn	Arg	Ala	Leu	Ser	Gly	Ile
235							740			745						750
237	Ala	Ala	Glu	Gln	Asp	Arg	Asn	Thr	Arg	Glu	Val	Phe	Ala	Gln	Val	Lys
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240	Gln	Met	Tyr	Lys	Thr	Pro	Thr	Leu	Lys	Tyr	Phe	Gly	Gly	Phe	Asn	Phe
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243	Ser	Gln	Ile	Leu	Pro	Asp	Pro	Leu	Lys	Pro	Thr	Lys	Arg	Ser	Phe	Ile
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249	Lys	Gln	Tyr	Gly	Glu	Cys	Leu	Gly	Asp	Ile	Asn	Ala	Arg	Asp	Leu	Ile
250							820			825						830
252	Cys	Ala	Gln	Lys	Phe	Asn	Gly	Leu	Thr	Val	Leu	Pro	Pro	Leu	Leu	Thr
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255	Asp	Asp	Met	Ile	Ala	Ala	Tyr	Thr	Ala	Ala	Leu	Val	Ser	Gly	Thr	Ala
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265 900 905 910
267 Ile Ser Gln Ile Gln Glu Ser Leu Thr Thr Ser Thr Ala Leu Gly
268 915 920 925
270 Lys Leu Gln Asp Val Val Asn Gln Asn Ala Gln Ala Leu Asn Thr Leu
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273 Val Lys Gln Leu Ser Ser Asn Phe Gly Ala Ile Ser Ser Val Leu Asn
274 945 950 955 960
276 Asp Ile Leu Ser Arg Leu Asp Lys Val Glu Ala Glu Val Gln Ile Asp
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L:9 M:270 C: Current Application Number differs, Replaced Current Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date